

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A vehicle mirror-based wireless communication system, comprising:  
an interior rearview mirror assembly including an interior mirror reflective element, a housing for said reflective element and a mirror-mounted communication system; and  
said mirror-mounted communication system including a communication data port for  
5 short-range communication with a mobile device that is a personal accessory of an occupant of the vehicle, said communication system further including a communication link from the vehicle to an external provider of information or service, whereby said communication system provides connectivity between a low-power mobile device with a provider of information or service separated from the vehicle.
2. The communication system of claim 1 including manually operated controls at said interior rearview mirror assembly for facilitating operation of said mirror-mounted communication system.
3. The communication system of claim 1 including a multi-text display at said interior rearview mirror assembly.
4. The communication system of claim 3 wherein said multi-text display is a multi-pixel display.
5. The communication system of claim 3 wherein said multi-text display is a reconfigurable display.
6. The communication system of claim 5 wherein said multi-text display is a scrolling display.
7. The communication system of claim 1 wherein said communication data port provides short-range communication with a mobile device having one of a keypad, a touch pad, and a stylus actuated screen thereby providing user entry of text data to said communication system.

8. The communication system of claim 1 including a global positioning system, wherein said communication system communicates vehicle location information from said global positioning system to an external provider of information or service.
9. The communication system of claim 1 including a link between said communication system and a vehicle bus system whereby said communication system provides connectivity between a low-power mobile device with a vehicle bus system.
10. The communication system of claim 1 including a holder for a mobile device.
11. The communication system of claim 10 wherein said holder is at said interior rearview mirror assembly.
12. The communication system of claim 1 including a dock for docking a mobile device with said communication data port.
13. The communication system of claim 12 wherein said dock is at said interior rearview mirror assembly.
14. The communication system of claim 1 wherein said data port comprises a wireless communication port.
15. The communication system of claim 14 wherein said data port comprises an infrared communication port.
16. The communication system of claim 15 wherein said data port comprises an IrDA infrared data port.
17. The communication system of claim 14 wherein said data port comprises an RF communication port.
18. The communication system of claim 17 wherein said data port comprises a short-range wireless communication protocol.

19. The communication system of claim 1 wherein said data port comprises a wired communication port.

20. The communication system of claim 1 further including a mobile device that is a personal accessory of an occupant of the vehicle, said mobile device being in communication with said communication data port.

21. The communication system of claim 20 wherein said mobile device comprises one of a hand-held telephone, a personal digital assistant, a hand-held personal identifier, and a hand-held remote entry device.

22. The communication system of claim 21 wherein said mobile device comprises a hand-held remote entry device selected from the group consisting of an active key fob and a passive key fob.

23. The communication system of claim 1 wherein said communication link comprises a wireless link.

24. The communication system of claim 1 including a voice detection and recognition system, wherein said communication system receives data from said voice detection and recognition system.

25. A vehicle mirror-based wireless communication system, comprising:

an interior rearview mirror assembly including an interior mirror reflective element, and a housing for said reflective element;

a remote telematic server that is remote from the vehicle;

5 a vehicular dynamic interactive communication system at said interior rearview mirror assembly, said communication system including a global positioning system for determining a geographic location of the vehicle and a first communication link with said remote telematic server, said interactive communication system further including a multi-text scrolling display;

10 at least one service provider; and

a second communication link between said at least one service provider and said telematic server, whereby said communication system communicates identification data to said remote telematic server pertaining to at least one of the location, identity and direction heading of the vehicle and whereby said at least one service provider provides assistance data to the vehicle via said first and second communication links, said assistance data being customized to said at least one of the location, identity and direction heading of the vehicle.

26. The communication system of claim 25 wherein said first and second communication links are two-way links.

27. The communication system of claim 26 wherein said at least one service provider comprises one of a gas station, a store, a cinema, a WEB site, a toll center, a banking center, a news center, a weather center, a traffic data center, an advertisement center, and a satellite radio provider.

28. The communication system of claim 25 wherein said communication system provides communication from the vehicle to said at least one service provider in response to said assistance data.

29. The communication system of claim 25 wherein said communication system further includes a communication data port for short-range communication with a mobile device that is a personal accessory of an occupant of the vehicle.

30. The communication system of claim 29 wherein said mobile device comprises one of a hand-held telephone, a personal digital assistant, a hand-held personal identifier, and a hand-held remote entry device.

31. The communication system of claim 29 wherein said mobile device comprises a hand-held remote entry device selected from the group consisting of an active key fob and a passive key fob.

32. The communication system of claim 29 including a holder for a mobile device.

33. The communication system of claim 32 wherein said holder is at said interior rearview mirror assembly.
34. The communication system of claim 29 including a dock for docking a mobile device with said communication data port.
35. The communication system of claim 34 wherein said dock is at said interior rearview mirror assembly.
36. The communication system of claim 29 wherein said data port comprises a wireless communication port.
37. The communication system of claim 36 wherein said data port comprises an infrared communication port.
38. The communication system of claim 37 wherein said data port comprises an IrDA infrared data port.
39. The communication system of claim 29 wherein said data port comprises an RF communication port.
40. The communication system of claim 39 wherein said data port comprises a short-range wireless communication protocol.
41. The communication system of claim 25 including a voice detection and recognition system, wherein said communication system receives data from said voice detection and recognition system.
42. The communication system of claim 25 including manually operated controls at said interior rearview mirror assembly for facilitating operation of said mirror-mounted communication system.
43. The communication system of claim 25 wherein said display is a multi-pixel display.

44. The communication system of claim 25 wherein said display is a reconfigurable display.
45. The communication system of claim 25 wherein said communication data port provides short-range communication with a mobile device having one of a keypad, a touch pad, and a stylus actuated screen thereby providing user entry of text data to said communication system.
46. The communication system of claim 25 including a link between said communication system and a vehicle bus system whereby said communication system provides connectivity between a low-power mobile device with a vehicle bus system.
47. A vehicle mirror-based wireless communication system, comprising:  
an interior rearview mirror assembly including an interior mirror reflective element, a housing for said reflective element and a mirror-mounted communication system;  
said mirror-mounted communication system including a communication data port for  
5 short-range communication with a mobile device that is a personal accessory of an occupant of the vehicle;  
a global positioning system for determining a geographic location of the vehicle;  
a remote telematic server that is remote from the vehicle;  
said communication system comprising a first communication link with said remote  
10 telematic server, whereby said communication system provides connectivity between a low-power mobile device with said remote telematic server;  
at least one service provider; and  
a second communication link between said at least one service provider and said telematic server, whereby said communication system communicates identification data to  
15 said remote telematic server pertaining to at least one of the location, identity and direction heading of the vehicle and data from a low-powered mobile device and whereby said at least one service provider provides assistance data to the vehicle via said first and second communication links, said assistance data being customized to said at least one of the location, identity and direction heading of the vehicle.

48. The communication system of claim 47 including manually operated controls at said interior rearview mirror assembly for facilitating operation of said mirror-mounted communication system.
49. The communication system of claim 47 including a multi-text display at said interior rearview mirror assembly.
50. The communication system of claim 49 wherein said multi-text display is a multi-pixel display.
51. The communication system of claim 49 wherein said multi-text display is a reconfigurable display.
52. The communication system of claim 51 wherein said multi-text display is a scrolling display.
53. The communication system of claim 47 wherein said communication data port provides short-range communication with a mobile device having one of a keypad, a touch pad, and a stylus actuated screen thereby providing user entry of text data to said communication system.
54. The communication system of claim 47 including a link between said communication system and a vehicle bus system whereby said communication system provides connectivity between a low-power mobile device with a vehicle bus system.
55. The communication system of claim 47 including a holder for a mobile device.
56. The communication system of claim 55 wherein said holder is at said interior rearview mirror assembly.
57. The communication system of claim 47 including a dock for docking a mobile device with said communication data port.

58. The communication system of claim 57 wherein said dock is at said interior rearview mirror assembly.
59. The communication system of claim 47 wherein said data port comprises a wireless communication port.
60. The communication system of claim 59 wherein said data port comprises an infrared communication port.
61. The communication system of claim 60 wherein said data port comprises an IrDA infrared data port.
62. The communication system of claim 59 wherein said data port comprises an RF communication port.
63. The communication system of claim 62 wherein said data port comprises a short-range wireless communication protocol.
64. The communication system of claim 47 wherein said data port comprises a wired communication port.
65. The communication system of claim 47 further including a mobile device that is a personal accessory of an occupant of the vehicle, said mobile device being in communication with said communication data port.
66. The communication system of claim 65 wherein said mobile device comprises one of a hand-held telephone, a personal digital assistant, a hand-held personal identifier, and a hand-held remote entry device.
67. The communication system of claim 66 wherein said mobile device comprises a hand-held remote entry device selected from the group consisting of an active key fob and a passive key fob.



68. The communication system of claim 47 wherein said first and second communication links comprise wireless links.

69. The communication system of claim 47 including a voice detection and recognition system, wherein said communication system receives data from said voice detection and recognition system.